



Ladder Programming Software for MSEP-LC LC-LADDER



www.robocylinder.de



Controlling actuators with RoboCylinder position controllers used to require hard work to write ladder programs. PLC memory allocation needed to be considered, signals sent to the position controller, position numbers defined, and movements triggered with the correct timing. However, the MSEP-LC's DFC* command makes programming simple, providing static allocation of internal memory and timing-free command sending.



*DFC: Destination Function Code

Easy to operate, easy-to-read screen

The simple design cuts out rarely-used functions and focuses on operation. Even people who have never written a ladder program before can easily begin coding.





All the functions you need to create and edit ladder software are included, letting you efficiently build your software.





The software is a free download from our web page, allowing you to create ladder programs before buying the product.

Free www.robocylinder.de

-> support -> download -> software

MSEP-LC Functions

6-Axis Position Controller with I/O Control

MSEP-LC



Position Data

Position Data Input/Editing Screen

	☐ Jog movement speed settings Jog ► Continual m	ovement while button is pressed
	Roberton Schwerter KorRei (Bergosten eregiket NoSI) Brite Pasten Parmeter Monter Setting Worden Hels	distance per button press
Jog/inching	Disf Image: Second Se	Current position display Test operation speed setting
Load current position button	Altern No Position Speed PushPover[PushBand ACC [CL Energy-saving No Limpl Limp(s) [Sh - Unit [Cl]] . Mode	Test operation control buttons
Position nos.	0 0.00 100.00 0 0.10/0.30 0.30 0 1 150.00 100.00 0 0.10/0.30 0.30 0	Position data input area
Enter these numbers into the controller to move to that position.	2 3 4 5 6 7 8 9 9 10 11 12 13 3	 Enter positional values, and max values for speed/acceleration are automatically inserted Can also execute jog/inching movements
	14 15 16 17 18 Input range : -0.15 to 150.15 Peri COM14 Bardetti IIS200(pm) Peri COM14 Bardetti IIS200(pm) - ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	and load the current position

Ladder Programming __ LC-LADDER

Ladder Program

Simple and Easy Ladder Program Data Input

Inputting Ladder Program Data



Ladder Edit Software Covers Everything from Ladder Program Data Editing to Debugging



Simulate the program on a PC (axis control and other DFC commands not available)

Sample Program __LC-LADDER

Sample Program

Example Two-Point Round-Trip Ladder Program



Allocating Axis Control (DFC) Commands: Operation Mode = Positioner 1

The operation mode defines what kind of function is performed by turnir M112

e operation mode defines what kind of function is performed by rning on which internal relays. For example, in operation mode 1, 112 is the start signal (CSTB) for M0 internal relay beader addresses									— [C	FC	AX	OIOE	MO		1	
Axis no.: 0								De	efined a	axis —	Inte hea	rnal me der ade	emory dress	- Op mc	eration de	
End position no.																
Current L value	M15	M14	M13	M12	M11	M10	M9	M8	M7	M6	M5	M4	M3	M2	M1	M0
Current H value	M31	M30	M29	M28	M27	M26	M25	M24	M23	M22	M21	M20	M19	M18	M17	M16
PM	M47	M46	M45	M44	M43	M42	M41	M40	M39	M38	M37	M36	M35	M34	M33	M32
Status word	M63	M62	M61	M60	M59	M58	M57	M56	M55	M54	M53	M52	M51	M50	M49	M48
	EMGS	свру	Z 2	Z1				MEND	ALML		PSFL	SV	ALM	MOVE	HEND	PEND
Command position no.																
Target L value	M79	M78	M77	M76	M75	M74	M73	M72	M71	M70	M69	M68	M67	M66	M65	M64
Target H value	M95	M94	M93	M92	M91	M90	M89	M88	M87	M86	M85	M84	M83	M82	M81	M80
PC	M111	M110	M109	M108	M107	M106	M105	M104	M103	M102	M101	M100	M99	M98	M97	M96
Control word	M127	126	M125	M124	M123	M122	M121	M120	M119	M118	M117	M116	M115	M114	M113	M112
	BKRL							J0G+	- 10G -		JISL	SON	RES	STP	номе	CSTR

Contact point/coil		Abbv.	Name	Function					
SMO —		Always-on flag	The always-on contact point.						
	M32	PM1	Complete position no.	After detecting position, set to off if position no. 0 reached or on if position no. 1 reached.					
	M48	PEND	Positioning complete	After movement, set to on if position detect width reached.					
nput	M49 HEND Origin return complete			Set to on if origin return is complete.					
드	M51	ALM	Alarm	Set to off if controller status normal or on if alarm generated.					
	M52	SV	Servo on	Set to on if servo is on.					
	M62	CRDY	Controller ready	Set to on if controller preparation is complete.					
	M96	PC1	Command position no.	If off, movement command is for position no. 0. If on, movement command is for position no. 1.					
Output	M112	CSTR	Start signal	Set to on to begin movement to the defined command position no.					
	M113	HOME	Return to origin	Set to on to conduct origin-return operation.					
	M116	SON	Servo on	On: servo on; off: servo off.					
ТО		_	Timer	After setting command position no. (PC1), timer used to delay 20ms before turning on start signal (CSTR).					



The information contained in this catalog is subject to change without notice for the purpose of product inprovement





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